



Applications of Artificial Intelligence in Ocean-Based Systems

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Deadline for manuscript
submissions:

20 October 2024

Message from the Guest Editors

We encourage authors to submit research on machine learning, intelligent control systems, predictive maintenance, intelligent fault diagnosis, and other AI applications relevant to ocean-based systems. Of particular interest are studies that demonstrate how AI enhances engineering efficiency, quality, reliability, and sustainability. We welcome experimental research, case studies, as well as review articles to collectively explore the cutting edge of artificial intelligence in ocean-based applications and provide valuable insights for addressing future challenges. Original research and review articles related but not limited to the following topics are welcomed:

- Performance estimation of ocean-based systems;
- Design, manufacture, and analysis tools of ocean-based systems;
- Intelligent methodologies regarding operation and maintenance of ocean-based systems;
- Intelligent fault diagnostics, prognostics, and post-prognostics;
- Intelligent decision making;
- Interpretability of neural networks;
- Industrial information integration;
- AI-enhanced multi-physics modeling, simulation, and optimization;
- Intelligent transportation systems and smart vehicles.





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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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